

培養細胞該選擇哪一種培養表面？

The right surface — right from the start

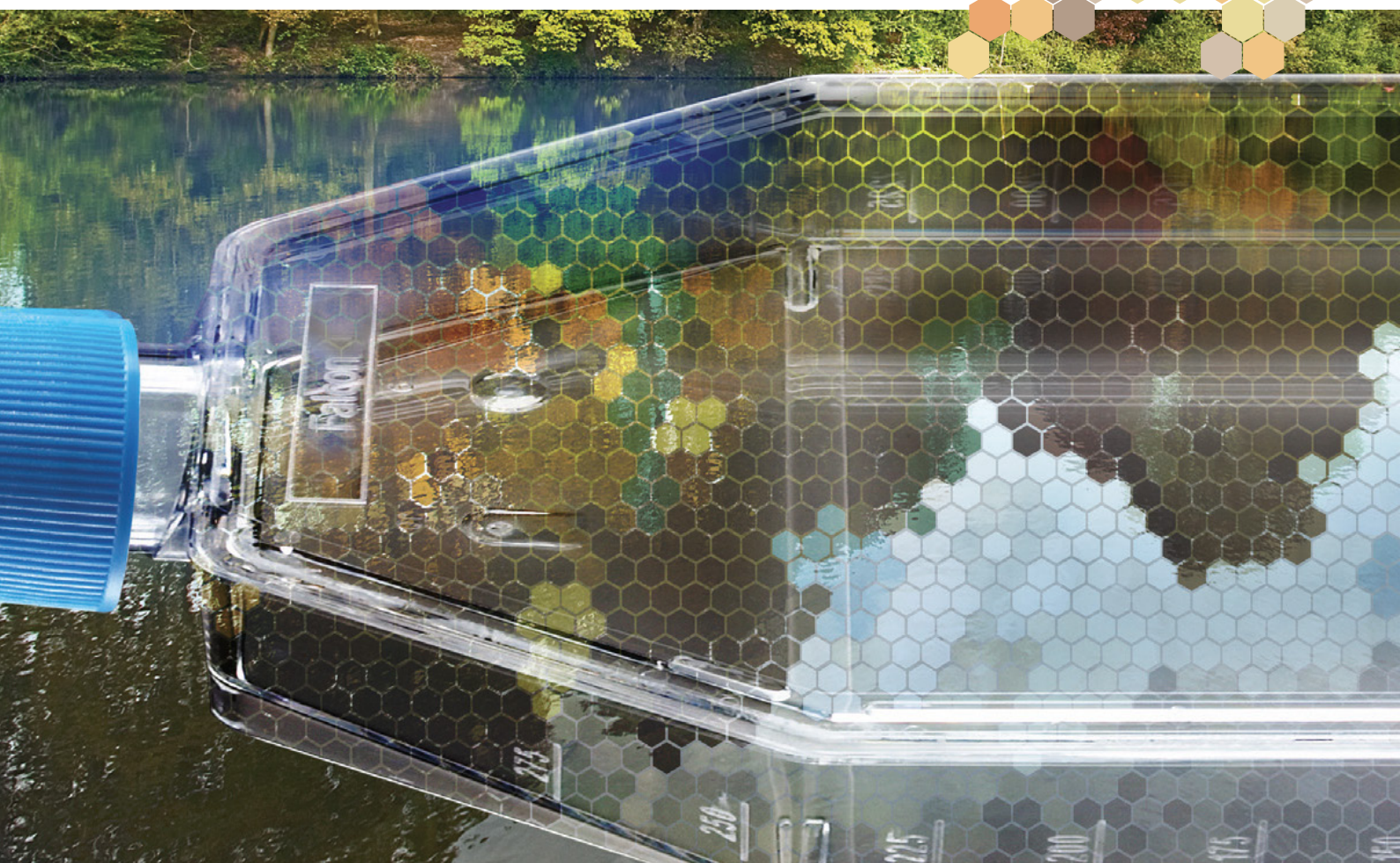
CORNING

BioCoat

細胞培養表面 選擇指南

提供各種細胞對應曾經發表過文獻的細胞培養表面，
以及相應 ready to use 的各式培養耗材

大幅提高您的實驗效率



Primary Cells

	Size	Collagen I	Collagen IV	Matrigel® Matrix	Fibronectin	Gelatin
CultureSlides	8 well	○			○	
	4 well	○			○	
	2 well	○			○	
	1 well	○			○	
Coverslips	35mm (Coverslip-Bottom Dish)					
	22 mm	○			○	
	12 mm					
Multiwell plates	96 well	○	○	○	○	○
	48 well	○		○	○	
	24 well	○	○	○	○	
	12 well	○		○	○	
	6 well	○	○	○	○	○
Flasks	Multi-3-layer					
	Multi-5-layer					
	300 cm ²					
	225 cm ²					
	175 cm ²	○	○		○	
	150 cm ²	○			○	
	75 cm ²	○	○		○	○
	25 cm ²	○	○		○	
Dishes	12.5 cm ²					
	150 mm	○	○		○	
	100 mm	○	○	○	○	○
	60 mm	○	○	○	○	
Dishes	35 mm	○	○	○	○	
Primary Cells		Extracellular Matrices (ECMs) and Biological Coatings				
Aortic endothelial cells, BAEC		1		2, 3	4	
Bile duct cells (epithelial)		6		7		
Bone marrow cells (bone resorption, osteoclast)						
Brain microvessel (endothelial)		11, 12	12	13	12	14
Cardiomyocytes; cardiac (endothelium, progenitor cells)		15		16	17	
Colonocytes (epithelial)			23	24		
Dorsal root ganglia				26, 27		
Embryonic cortical neurons				30		
Embryonic sympathetic neurons			32	33		
Endothelial cells; endothelial colony forming cells			34		34, 35	
Erythrocyte culture (parasite development stages [asexual, sexual])				379		
Hepatocytes		38, 386, 387	39, 387	40, 387		
Hippocampal neurons				46, 47	48	
Human periodontium (periodontal ligament)						
Human osteoclast precursors (osteoclast, pit formation)						
HUVEC (endothelial)		55, 56		57, 58	56, 59-61	62
HVSMC				58		
Keratinocytes		66, 67		67	67, 68	
Mammary epithelial cells; breast cells (luminal, myoepithelial and endothelial)		70, 71, 73		71, 72		
Microvascular, BME (endothelial)		76	77	78	79, 80	76, 81
Mouse splenic T-cells			84	84		
Muscle cells, myoblasts, myogenic cells, myotubes				85		
eural cells (cortical, cerebeller granule, astrocytes, sensory, sympathetic)			88			
Oligodendrocytes (glial; precursors)				101		
Osteoblasts		104				
Pancreatic islet, neonatal (3- to 5-day-old) rat islets of langerhans				107	106	
Parotid acinar cells				110		
Peripheral blood mononuclear cells		111, 112	113	114	112-114	
Postnatal mouse vestibular ganglion neurons						
Schwann cells (glial)			118	118		
Sertoli cells (spermatogenic)				121, 122		
Skeletal muscle cells (myocytes, myotubes)				123		
Smooth muscle cells (endothelial, aortic, vascular)		126	126	127	126, 128	
Urothelial cells		130	130	131	132	
Valvular interstitial cells					133	
Zygote and blastocyst development stages						

Laminin	Poly-Lysine (PDL, PLL)	PDL/LM and PLO/LM	PureCoat™ ECM Mimetic Fn	PureCoat ECM Mimetic COL I	rLaminin-521 (Human)	Primaria™	PureCoat Amine	PureCoat Carboxyl
	○	○						
	○							
	○	○						
	○							
	○							
	○	○						
○	○	○				○	○	
○	○							
○	○	○	○	○		○	○	○
○	○							
○	○	○	○	○	○	○	○	○
			○	○	○			
			○	○	○			
	○		○	○	○			
	○							
○	○		○	○	○	○		
○	○					○		
○	○							
○	○	○				○	○	○
○	○					○		
○	○					○		
			ECM Mimetics and Advanced Surfaces			Enhanced TC-treated Surfaces		
4								
12								
18	19					21		22
	28	29						
		31						
32		32						
34			36	36		37		
387	41					43, 44		
46, 48	46, 49, 50	49, 50						
56						61		
65								
				315				
74								
86								
88, 89	90-98	99					100	
102	101, 103							
							22	
118								
						124		
						129		

Cell Lines (transformed or transfected)

	Size	Collagen I	Collagen IV	Matrigel® Matrix	Fibronectin	Gelatin
CultureSlides	8 well	○			○	
	4 well	○			○	
	2 well	○			○	
	1 well	○			○	
Coverslips	35mm (Coverslip-Bottom Dish)					
	22 mm	○			○	
	12 mm					
Multiwell plates	96 well	○	○	○	○	○
	48 well	○		○	○	
	24 well	○	○	○	○	
	12 well	○		○	○	
	6 well	○	○	○	○	○
Flasks	Multi-3-layer					
	Multi-5-layer					
	300 cm ²					
	225 cm ²					
	175 cm ²	○	○		○	
	150 cm ²	○			○	
	75 cm ²	○	○		○	○
	25 cm ²	○	○		○	
Dishes	12.5 cm ²					
	150 mm	○	○		○	
	100 mm	○	○	○	○	○
	60 mm	○	○	○	○	
	35 mm	○	○	○	○	
Cell Lines (transformed or transfected)		Extracellular Matrices (ECMs) and Biological Coatings				
ARH-77 (lymphoblast)					255	
BHK-21 (fibroblast)					61	256
Breast cancer cells (established cell lines)				261, 262		
C2C12 (myoblast)		263		264		
Cell immobilization (Gin-1, Nasal epithelial cells, Molt-4 and K562 human leukemia cells, Sf9 Cells)						
Chinook Salmon Embryo Cells (CHSE-214)						
CHO, CHO-1, CHO-K1 (epithelial, endothelial, transfected fusion protein)				272, 273		274
COS-7 (fibroblast, transfected)		279		280	279	
Dorsal Root Ganglia (transfected)				284		
H1299 (transfected- human non-small cell lung carcinoma cell line)				286	287	
HEK-293 (transfected, epithelial), EcoPack2™ -293, HEK-SRAtet cells, Living Colors HEK-ZsGreen proteasome sensor (transfected)		289, 290		291		291
HeLa						
HepG2 (hepatocyte), Hep3B (hepatoma)		299		300		
HT-1080 (epithelial)		302, 303	304, 305	302		
hFOB 1.19, MG63 (osteoblast cell lines)				309-311	312	
Human MOLT-4, drosophila S2 (biomaterial and tissue engineering applications)						
Keratinocytes (human neonatal)		315			316	
L929 (fibroblast, transfected)				317		
LnCAP (prostate cancer cell line)		307		320		
MCF7 (epithelial)		321	322		323	
MCF-10A (epithelial)		71, 325		71, 325-328	329, 330	
MDA-MB-231		302, 307, 334	322	302, 326, 335-339	322, 334	322
MDA-MB 435		340		338, 339, 341, 342		
MM41 (skeletal myoblasts, transfected)		344				
MRC5						
N2AB-1 (neuroblastoma)						
NIH/3T3, 3T3 (fibroblast)				345	346, 347	
PC-3, PC-12		307, 350		351, 390		
RTG-2 (rainbow trout gonad cells)				358		
RAW 264.7 (macrophage; osteoclast differentiation, pit formation)			359			
SH-SY5Y		362	362	363		
SK-MEL-28			366		366, 367	
U266 (lymphoblast)					255	
U937 (monocyte)		368				
Vero cells						

Laminin	Poly-Lysine (PDL, PLL)	PDL/LM and PLO/LM	PureCoat™ ECM Mimetic Fn	PureCoat ECM Mimetic COL I	rLaminin-521 (Human)	Primaria™	PureCoat Amine	PureCoat Carboxyl
	○	○						
	○							
	○	○						
	○							
	○							
	○	○						
○	○	○				○	○	
○	○							
○	○	○	○	○		○	○	○
○	○							
○	○	○	○	○	○	○	○	○
			○	○	○			
			○	○	○			
	○		○	○	○			
	○							
○	○		○	○	○	○		
○	○					○		
○	○							
○	○	○				○	○	○
○	○					○		
○	○					○		
			ECM Mimetics and Advanced Surfaces			Enhanced TC-treated Surfaces		
						61	257, 258	
	259							
			275			276	22	
	281, 282					283		
	274, 292					294	258, 297	297
								22
							258	258
								258
				315				
								257, 258
330, 331		332						
334	334							
								257
	349							
352	348, 353, 354	355				356	22	22
359								
364		364						
366								
369								
			275	275				

Stem and Progenitor Cell Expansion

	Size	Collagen I	Collagen IV	Matrigel® Matrix	Fibronectin	Gelatin	Laminin
CultureSlides	8 well	○			○		
	4 well	○			○		
	2 well	○			○		
	1 well	○			○		
Coverslips	35mm (Coverslip-Bottom Dish)						
	22 mm	○			○		
	12 mm						
Multiwell plates	96 well	○	○	○	○	○	○
	48 well	○		○	○		○
	24 well	○	○	○	○		○
	12 well	○		○	○		○
	6 well	○	○	○	○	○	○
Flasks	Multi-3-layer						
	Multi-5-layer						
	300 cm ²						
	225 cm ²						
	175 cm ²	○	○		○		
	150 cm ²	○			○		
	75 cm ²	○	○		○	○	○
	25 cm ²	○	○		○		○
Dishes	12.5 cm ²						
	150 mm	○	○		○		○
	100 mm	○	○	○	○	○	○
	60 mm	○	○	○	○		○
	35 mm	○	○	○	○		○
Stem and Progenitor Cells Expansion		Extracellular Matrices (ECMs) and Biological Coatings					
Human embryonic stem cell (hESC)			134	135	134		134
Human induced pluripotent stem cell (hiPSC)				138, 139			
hMSCs (bone marrow derived, adipose derived)					140		
Human retinal progenitor cells (RPE)					143		
rESC; rat endothelial progenitor cells						144	
Neuronal stem cell (intestinal/enteric)					147		147

Poly-Lysine (PDL, PLL)	PDL/LM and PLO/LM	PureCoat™ ECM Mimetic Fn	PureCoat ECM Mimetic COL I	rLaminin-521 (Human)	Primaria™	PureCoat Amine	PureCoat Carboxyl
○	○						
○							
○	○						
○							
○							
○	○						
○	○				○	○	
○							
○	○	○	○		○	○	○
○							
○	○	○	○	○	○	○	○
		○	○	○			
		○	○	○			
○		○	○	○			
○							
○		○	○	○	○		
○					○		
○							
○							
○	○				○	○	○
○					○		
○					○		
		ECM Mimetics and Advanced Surfaces			Enhanced TC-treated Surfaces		
				392			
				393			
		141					

In Vitro Differentiation of Pluripotent Stem Cells

	Size	Collagen I	Collagen IV	Matrigel® Matrix	Fibronectin	Gelatin
CultureSlides	8 well	○			○	
	4 well	○			○	
	2 well	○			○	
	1 well	○			○	
Coverslips	35mm (Coverslip-Bottom Dish)					
	22 mm	○			○	
	12 mm					
Multiwell plates	96 well	○	○	○	○	○
	48 well	○		○	○	
	24 well	○	○	○	○	
	12 well	○		○	○	
	6 well	○	○	○	○	○
Flasks	Multi-3-layer					
	Multi-5-layer					
	300 cm ²					
	225 cm ²					
	175 cm ²	○	○		○	
	150 cm ²	○			○	
	75 cm ²	○	○		○	○
	25 cm ²	○	○		○	
Dishes	12.5 cm ²					
	150 mm	○	○		○	
	100 mm	○	○	○	○	○
	60 mm	○	○	○	○	
	35 mm	○	○	○	○	
In Vitro Differentiation of Pluripotent Stem Cells		Extracellular Matrices (ECMs) and Biological Coatings				
hESC (cerebral organoid model)				148		
hESC (pancreatic)				149		150
hESC, hiPSC (cardiomyocytes)				149, 151-153		154
hESC, hiPSC, mESC (Germ Cell Layers: ectoderm, mesoderm, endoderm; hematopoietic progenitor; definitive differentiation; cardiomyocytes)		155, 228	156	135, 138, 139, 158, 159	157	160
hESC, hiPSC, mESC, miPSC (endothelial)		165		164, 166, 167		
hESC, hiPSC (intestinal organoids)				168, 169		
hESC, hiPSC (neuronal)				149, 170, 171	170	
hESC (osteogenic)						177
hESC, hiPSC (smooth muscle)				170, 178	170	
hESC, mESC (lung epithelial)		179		179, 180		182
hESC, mESC, rESC (hepatocyte, hepatocyte-like)		183		170, 183-186	170	187
Human NPCs (differentiation to neuronal cells)				188		
hPSCs, mPSCs (renal progenitor cells, renal tubular cells, endoderm)		155		191, 192		
mESC (hematopoietic)				164		
mESC, Chicken (cardiomyocytes)		165, 193		193	165	154, 194, 195
mESC, rESC, miPSC (neuronal, progenitor)				188	188, 196	197, 198
mPSCs (inner ear sensory epithelia)				201		
hESC, hiPSC (retinal pigment epithelial)				396		

Laminin	Poly-Lysine (PDL, PLL)	PDL/LM and PLO/LM	PureCoat™ ECM Mimetic Fn	PureCoat ECM Mimetic COL I	rLaminin-521 (Human)	Primaria™	PureCoat Amine	PureCoat Carboxyl
	○	○						
	○							
	○	○						
	○							
	○							
	○	○						
○	○	○				○	○	
○	○							
○	○	○	○	○		○	○	○
○	○							
○	○	○	○	○	○	○	○	○
			○	○	○			
			○	○	○			
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	○							
○	○		○	○	○	○		
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○	○					○		
○	○					○		
			ECM Mimetics and Advanced Surfaces			Enhanced TC-treated Surfaces		
					394			
161, 162					393			
164								
170, 172	170	173			393			
170	170							
170	170							
189					393			
164								
165								
188, 199	200							

In Vitro Differentiation of Adult Stem Cells

	Size	Collagen I	Collagen IV	Matrigel® Matrix	Fibronectin	Gelatin	Laminin
Culture Slides	8 well	○			○		
	4 well	○			○		
	2 well	○			○		
	1 well	○			○		
Coverslips	35mm (Coverslip-Bottom Dish)						
	22 mm	○			○		
	12 mm						
Multiwell plates	96 well	○	○	○	○	○	○
	48 well	○		○	○		○
	24 well	○	○	○	○		○
	12 well	○		○	○		○
	6 well	○	○	○	○	○	○
Flasks	Multi-3-layer						
	Multi-5-layer						
	300 cm2						
	225 cm2						
	175 cm2	○	○		○		
	150 cm2	○			○		
	75 cm2	○	○		○	○	○
	25 cm2	○	○		○		○
Dishes	12.5 cm2						
	150 mm	○	○		○		○
	100 mm	○	○	○	○	○	○
	60 mm	○	○	○	○		○
	35 mm	○	○	○	○		○
In Vitro Differentiation of Adult Stem Cells		Extracellular Matrices (ECMs) and Biological Coatings					
hADSCs; adipose (endothelial)				202			
Cardiac progenitor cells (cardiomyocyte)		204					205
Colon (epithelial organoids)		207		169, 208			
Hair follicle (melanocytes, neurons, smooth muscle)				210	210		
Hepatic progenitor cells (hepatic, biliary cells)							211
Intestinal (organoids, crypt-villus)		213		214-216			
Keratinocytes (epidermal)		217				217	
Lung (sphere)				218			
Mammary epithelial cells				220-222			
MSC (cardiomyocyte, chondrocyte, hematopoietic, hepatocyte, neuron, osteocyte, spheroid)		141, 223-227, 232		223, 225, 229, 230	140, 223-225, 229, 231		223, 224
MSC (endothelial progenitors)		240					
Muscle (skeletal)							241
Neural progenitor/stem cells (neuron, astrocytes, neuroblast)				243		198	189, 243
Pancreatic (endocrine)			249	248, 250			249
Prenatal rat cells (neuron, glial cells)							251
Retinal (retinal neuron)							
Salivary gland				253			
Stomach (gastric units)				254			

Poly-Lysine (PDL, PLL)	PDL/LM and PLO/LM	PureCoat™ ECM Mimetic Fn	PureCoat ECM Mimetic COL I	rLaminin-521 (Human)	Primaria™	PureCoat Amine	PureCoat Carboxyl
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		ECM Mimetics and Advanced Surfaces			Enhanced TC-treated Surfaces		
204							
	244						

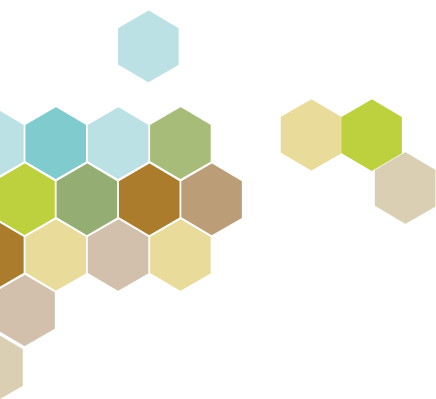
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